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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/017,368	12/13/2001	Mark S. Moriconi	BEAS-01453US3	8047
23910	7590	12/28/2007	EXAMINER	
FLIESLER MEYER LLP			POLTORAK, PIOTR	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/017,368	MORICONI ET AL.
	Examiner	Art Unit
	Peter Poltorak	2134

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 04 December 2007.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-9 and 21-31 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-9 and 21-31 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>12/14/07</u> . | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. The Amendment received on 12/04/07 has been entered and carefully considered.
2. The Amendment introduces a new limitation into the originally sole independent claims 1, 7, 21, 26 and 30-31.
3. The newly introduced limitation has required a new search and/or consideration of the pending claims. The newly introduced limitations are addressed within this Office Action, below.
4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior office action.

Response to Amendment

5. In regard to the previous Office Action applicant essentially argues the newly introduced claim limitations that are addressed in the current Office Action, bellow.
6. Claims 1-9 and 21-31 have been examined.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

7. Claims 1-9 and 21-31 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably

convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. In particular the limitation: "each separate application in the system being guarded by a different copy of access authorization service such that separate applications in the system do not share authorization service" is not disclosed in the original specification. The recitations regarding authorization services in the specification, e.g. "A dedicated authorization service is associated with one or more applications", "Application guard 310 is preferably integrated with application 312 through a high-level Application Programming Interface (API) or authorization library 314 that allows application 312 to request authorization services as needed through an application guard interface 512", "The advantage of the latter design would be to offload the application server from handling authorization services or allowing a single authorization server to handle a multiple number of applications 312. A local implementation would provide maximum performance and minimize any network traffic overhead" (this last recitation is directed to implementing the mechanism on various client machines), etc. falls short of teaching "each separate application in the system being guarded by a different copy of access authorization service such that separate applications in the system do not share authorization service".

Appropriate correction is required.

Claim Rejections - 35 USC § 103

8. Claims 1-2, 5, 7-8, 21-31 are rejected under 35 U.S.C. 103(a) as obvious over *Brownlie et al. (U.S. Patent No. 6202157)* in view of *Donohue (U.S. Patent 6199204)*

and further in view of *Wu et al.* (USPN 5774551) or *Al-Salqan et al.* (USPN 6687823).

As per claims 1-2, 5, 7-8, 21-22, 24, 26-27, 29-31 *Brownlie et al.* teach a policy manager, coupled to a network, including a database for storing a security policy including a plurality of rules and a policy distributor, coupled to the database, for distributing the plurality of rules through the network (*Brownlie et al.*, col. 3 lines 25-34, line 54-col. 4 line 2), a security engine located on a client coupled to the network, for storing a set of the plurality of rules constituting a local customized security policy received through the network from the policy distributor and for enforcing the local customized security policy with respect to an application at the client (*Brownlie et al.*, col. 4 lines 16-43, 51-52 and col. 5 lines 1-5), an application, coupled to the security engine application rather than being embedded in the application (*Brownlie et al.*, Fig. 1 node 22, col. 4 lines 47-50 and col. 7 lines 43-49) and the security policy including a plurality of rules for controlling access to securable objects (*Brownlie et al.*, col. 7 lines 1-22).

9. As per determining incremental changes applicable to the security engine, the examiner points out that computing environments are subject to constant changes that are the result of continuing evolution of corporate administrative structure as well as software advancement. In addition to ever changing corporate structures as well as security requirements, software itself evolves (for example it changes and is replaced) setting new requirements for user interactions.

This notion is also recognized by *Brownlie et al.* who anticipate a series of incremental changes to a security policy (*Brownlie et al.*, col. 1 lines 54-56, line 2 lines 29-30, col. 7 lines 50-54 etc.).

However, *Brownlie et al.* is silent in regard to the specific implementation of incremental changes to a security policy. Specifically, *Brownlie et al.* do not disclose that updates involve keeping track of a series of incremental changes, computing an accumulated delta that reflects the series of incremental changes and sending the accumulated delta to the subject implementing the changes (the security engine) from a distributor (the policy manager) such that the subject uses the delta to update the current setting (the current local customized security policy).

Donohue discloses the process of updating computing systems that involves keeping track of a series of incremental changes (*Donohue*, col. 7 line 59-col. 8 line 10 and Fig. 2) computing an accumulated delta that reflects the series of incremental changes (e.g. col. 7 line 66-col. 8 line 2 and col. 9 lines 44-58) and sending the accumulated delta to the subject implementing the changes from a distributor such that the subject uses the delta to update the current setting (*Donohue*, col. 4 line 23-28). It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to compute an accumulated delta that reflects the series of incremental changes and send the accumulated delta to the subject implementing the changes from a distributor such that the subject uses the delta to update the current setting giving the benefit of more efficient updates of security policies while saving network bandwidth.

10. Additionally, the examiner also points out that the new limitations are simply an obvious variation of possible security change implementations. In network environment it is infeasible to ensure that incremental changes are implemented by all subjects (clients with security engines) at the same time. For example, in addition to subjects available for updates, some may be shut down (e.g. a user taking vacation) and some may not be even in a distributor network (e.g. a user taking a laptop for a business trip). As a result, comprehensive updates to already present policy must account for the time difference that results in a different set of incremental changes distributed to policy subjects. Thus, it would have been obvious to one of ordinary skill in the art at the time of applicant's invention to keep track of incremental changes that would allow computation of an accumulated delta that reflect the series of incremental changes (*for a particular subject*) distributed to a particular subject given the benefit of a comprehensive update of each subject using a minimum of network bandwidth and a flexible update schedule.

11. Furthermore, there are essentially only a few possibilities to update current configuration (such as policies) in order to reflect the most current desirable state (the most current overall configuration), which could include multiple intermediate updates. The newest most current overall configuration settings could be used to overwrite the current configuration. The changes could be implemented gradually, or only the difference (delta) between the current and most updated overall configuration could be installed. (The last one reads on the claimed limitations) Any of these implementations, are obvious variations of each other. However, taking in

consideration time and network bandwidth required to deliver and update all network subjects, the delta implementation would have been the most obvious choice.

Transferring less data via network minimize the use of the network bandwidth and less data to install speeds up the update process and minimize possibility of errors.

12. As per newly introduced limitation *Brownlie et al.* in view of *Donohue* do not teach that the system being guarded by a different copy of access authorization service such that separate applications in the system do not share authorization services. *Wu et al.* discloses a system with modular (pluggable) design wherein a different copy of access authorization service guards separate applications (Fig. 1, 3 and 5 and associated text).

Similarly, *Al-Salqan et al.* discloses a Pluggable Authentication Mechanism (PAM) that is a modular system in which a different copy of access authorization service guards separate applications (see col. 3, and Fig. 1 and associated text).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to include different authorization services to guard separate applications as disclosed by *Wu et al.* or *Al-Salqan et al.* given the benefit of minimizing system's complexity while providing a strong security without the need for constant changes to the authorization service in order to accommodate different application requirements (scalability).

13. As per claims 25 and 29 *Brownlie et al.* changes inherently include one or more of adding, deleting and amending.

14. As per claims 22-23 and 27-28 the table disclosed by *Donohue* in Fig. 2 reads on a policy tracking table. Furthermore, Official Notice is taken that it is old and well-known practice to store data in a table and using the stored data in reconstruction of a computer systems to a previous state. It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to reconstruct a computer state to the previous version using earlier stored and distributed data given the benefit of a quick troubleshooting of problems, potentially introduced by the data.
15. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over *Brownlie et al.* (U.S. Patent No. 6202157) in view of *Donohue* (U.S. Patent 6199204) and *Wu et al.* (UPSN 5774551) or alternatively *Al-Salqan et al.* (USPN 6687823) and further in view of *Wang* (U.S. Patent No. 5956521).
- Brownlie et al.* discloses that the policy manager and the policy distributor are hosted on a first server (*Brownlie et al.*, col. 3 lines 27-34, 54-56 and 61-63), the security engine and the application are hosted on a second node, and the first and second node are communicatively coupled to each other through the network (col. 3 lines 61-63).
16. *Brownlie et al.* do not explicitly teach that the second node is a server. *Wang* teach a plurality of nodes that are servers (*Wang*, Fig. 3). It would have been obvious to one of ordinary skill in the art at the time of applicant's enforceable security policy invention as disclosed by *Brownlie et al.* into systems with nodes that are servers as taught by *Wang*. One of ordinary skill in the art would

have been motivated to perform such a modification in order to provide an enforceable flexible security policy for each network node including servers.

17. Claims 3-4 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Brownlie et al.* (U.S. Patent No. 6202157) in view of *Donohue* (U.S. Patent 6199204) and *Wu et al.* (USPN 5774551) or alternatively *Al-Salqan et al.* (USPN 6687823) and further in view of *TRCKA et al.* (U.S. Pub. No. 20010039579) and *Microsoft Press* (*Computer Dictionary, 3rd Edition, ISBN: 157231446XA, 1997*). *Brownlie et al.* disclose the security engine as discussed above.

As per claims 3 *Brownlie et al.* teach the security engine for evaluating a request to access the application based on the set of the plurality of rules and the application and the engine to communicating (*Brownlie et al.*, col. 4 lines 47-50 and col. 7 lines 43-49).

18. *Brownlie et al.* do not explicitly teach an application programming interface (API) for enabling communication between the application and the engine.

TRCKA et al. teach utilizing API in communication [101].

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to provide API for enabling communication between the application and the engine as taught by *TRCKA et al.* One of ordinary skill in the art would have been motivated to perform such a modification in order to code efficiency by allowing significant amount of code to be re-used [103].

19. *Microsoft* teaches a plug-in (*Microsoft Press*, pg. 370).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate a plug-in API as taught by *Microsoft*. One of ordinary skill in the art would have been motivated to perform such a modification in order to provide additional functionality (*Microsoft*, pg. 410).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Moriconi et al. (USPN 6158010).

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter Poltorak whose telephone number is (571) 272-3840. The examiner can normally be reached Monday through Thursday from 9:00 a.m. to 4:00 p.m. and alternate Fridays from 9:00 a.m. to 3:30 p.m

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kambiz Zand can be reached on (571) 272-3811. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

12/21/07

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12,21,07